

AMENDMENTS TO THE CLAIMS

The following listing of claims will replace all prior versions, and listings, of claims in the application.

1. **(Currently amended)** Artificial turf, comprising:
 a substrate; and
 a plurality of fibers protruding from the substrate, wherein the fibers include a thermochromic chromogen.
- 2-4. **(Cancelled)**
5. **(Original)** The artificial turf of claim 1 wherein the chromogen is coated on the surface of the fibers.
6. **(Original)** The artificial turf of claim 1 wherein the chromogen is included within the core of the fibers.
7. **(Original)** The artificial turf of claim 1 wherein the fibers are composed of the chromogen.
8. **(Original)** The artificial turf of claim 1 wherein the chromogen is encapsulated.
9. **(Original)** Artificial turf, comprising:
 a substrate; and
 a plurality of fibers protruding from the substrate, wherein the fibers respond to an increase in temperature by changing from a first color to a second color, the first color and the second color being visually distinguishable.

10. **(Cancelled)**
11. **(Original)** Artificial turf, comprising:
a substrate; and
a plurality of fibers protruding from the substrate, wherein the fibers respond to a change in chemical environment by changing from a first color to a second color, the first color and the second color being visually distinguishable.
12. **(Currently amended)** The artificial turf of claim 9, ~~10, or 11~~ wherein the change in color is substantially reversible.
13. **(Original)** The artificial turf of claim 1, further comprising indicia for determining the position of a golf ball.
14. **(Original)** The artificial turf of claim 1, further comprising indicia for marking the boundaries of a sports field.
- 15-16. **(Canceled)**
17. **(New)** The artificial turf of claim 9 wherein the change in color is substantially reversible.
18. **(New)** Artificial turf, comprising:
a substrate; and
a plurality of fibers protruding from the substrate, wherein the fibers include a chemically chromic chromogen.
19. **(New)** The artificial turf of claim 18 wherein the chromogen is coated on the surface of the fibers.

20. **(New)** Artificial turf, comprising:
a substrate; and
a plurality of fibers protruding from the substrate, wherein the fibers respond to an elastic elongation by changing from a relaxed color to an elongated color, the relaxed color and the elongated color being visually distinguishable.
21. **(New)** The artificial turf of claim 20 wherein the fibers comprise poly(diacetylene).
22. **(New)** The artificial turf of claim 21 wherein the fibers are composed of poly(diacetylene).
23. **(New)** The artificial turf of claim 21 wherein the fibers comprise a coating of poly(diacetylene) surrounding a core of a different material.
24. **(New)** The artificial turf of claim 20, further comprising indicia for determining the position of a golf ball.
25. **(New)** The artificial turf of claim 20, further comprising indicia for marking the boundaries of a sports field.